City of Salem Water & Sewer Department

Application For Nonresidential Establishments Discharge Permit

General Instructions:

For your best interests, if there is any part of this form that may be deemed proprietary information, please stamp as such so that proper steps will be taken to keep such information proprietary.

Please complete the attached form and return it to the following address:

City of Salem Water Department Attn: Frank C. Young III P.O. Box 869 Salem, VA 24153

If you should have any questions, please contact the following person(s):

Frank C. Young III- Chief WTP Operator- City of Salem Ian A. Smith, P.E.- Environmental Programs Engineer- WVWA

	Signatory Requirement
	certify under penalty of law that I have personally examined and am familiar with the information in this application and all attachments and that, based on my inquiry of those persons in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment
ī	Name- Authorized Representative
(Official Title
•	Signature .
D	Date

Water & Sewer Department

I. General Information:

A. Establishment Name		
Physical Address		
Mailing Address		
City	State	Zip Code
Telephone Number(s)		
B. Authorized person to represent Virginia Water Authority Water Name	er Pollution Control	n official dealings with the Western Plant:
Title		
Telephone Number(s)		
Email address		
C. Alternate person to contact con Name		
Title Telephone Number(s)		
Email address		
D. Identify the type of business ac warehousing, electroplating, p		g.: auto repair, machine shop, sing/packaging, restaurant, etc.):
E. Provide a brief narrative descripactivities provided/conducted by		
F. Proper Federal Standard Industry Industry Classification System		SIC) Code(s) and North American

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G. This Business Establishment generates the following types of wastes (check all that apply):

		Avg. Gallons per day	Estimated/Measured
 Cooling water, non- Boiler/Tower blow Cooling water, cont Process water Equipment/Facility Air Pollution Control 	estrooms, showers, etc.) contact.)		[][]
H. This Business Estal	blishment discharges wa	astes to (check	all that apply):
		Avg. Gallons per day	Estimated/Measured
 Storm sewer Surface water Ground water Waste haulers Evaporation 	Total Gallons:		
-	Control Countermeasur [] yes [] no	re Plan prepare	ed for this Business
If yes, then please er Plan when returning		ill Prevention	Control Countermeasure
II. Facility Operation Chara	acteristics:		
A. Total number of en	nployees		
B. Total number of shi	ifts		
C. Starting times of ea	ch shift:; 3 rd ;	4 th ;	5 th
	-3-		
Note: The following i	nformation must be co	ompleted for e	ach product line.
D. Principal product(s) produced:		

E. Raw materials and process additives used:
F. This Production process is:
[] Batch [] Continuous [] Both
If Both, then: % Batch and % Continuous.
G. Hours of Operation: to [] continuous
H. Is the production of this product line subject to seasonal variation?
[] yes [] no
If yes, then briefly describe the seasonal production cycle:
I. Are any process changes or expansions planned during the next three years?
[] yes [] no
If yes, then attach a separate sheet to this form describing the nature of planned changes or expansions (Note: You may want to stamp this <u>CONFIDENTIAL</u>).

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III. Wastewater Information:

A. Does you Business Establishment employ processes in any of the industrial categories or business activities listed below? (Check all that apply)

[] Electroplating	Dairy Products Processing
[] Organic Chemicals, Plastics &	[] Canned & Preserved Fruits &
Synthetic Fibers	Vegetables Processing
[] Inorganic Chemicals	[] Grain Mills
[] Soap & Detergent Manufacturing	[] Canned & Preserved Seafood Processing
[] Fertilizer Manufacturing	[] Sugar Processing
[] Petroleum Refining	[] Textile Mills
[] Iron & Steel Manufacturing	[] Cement Manufacturing
[] Nonferrous Metals Manufacturing	[] Feedlots
[] Steam Electric Power Generation	[] Phosphate Manufacturing
[] Ferro-alloy Manufacturing	[] Meat Products Processing
[] Leather Tanning & Finishing	[] Coal Mining
[] Glass Manufacturing	[] Oil & Gas Extraction
[] Asbestos Manufacturing	[] Mineral Mining & Dressing
[] Rubber Manufacturing	[] Ore Mining & Dressing
[] Timber Products Processing	[] Copper Forming
[] Nonferrous Metals Forming	[] Aluminum Forming
[] Pulp, Paper & Paperboard Processing	[] Gum & Wood Chemicals Manufacturing
[] Builder's Paper & Board Mills	[] Pesticide Chemicals
[] Metal Finishing	[] Explosives Manufacturing
[] Pharmaceutical Manufacturing	[] Carbon Black Manufacturing
[] Paint Formulating	[] Photographic
[] Ink Formulating	[] Hospital
[] Battery Manufacturing	[] Plastics Molding & Forming
[] Metal Molding & Casting	[] Paving & Roofing Materials
[] Coil Coating	(tars and asphalt)
[] Electrical & Electronic Components	[] Porcelain Enameling

B. If there have been analyses performed on the wastewater discharge(s) from your Business Establishment, then attach a copy of the most recent data/results to this questionnaire. Be sure to include the dates of sampling and analysis, along with descriptive explanation(s) of sampling location(s). (Sketches or marked plans will suffice)

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IV. Wastewater Quality Characterization:

Indicate by placing an "X" in the appropriate box by each listed parameter whether it is "Suspected to be Absent", "Known to be Absent", "Suspected to be Present" or "Known to be Present" in the waste stream(s). Provide chemical analyses if available (specify units). Attach additional sheets if necessary (one set for each waste stream).

A. General Pollutant Information:

Parameters 1. Bromide 2. Chlorine, Total Residual 3. Color 4. Fecal Coliform 5. Fluoride 6. Nitrate-Nitrite (as N) 7. Nitrogen, Total Organic (as N) 8. Oil and Grease 9. Phosphorus, Total (as P)	Known <u>Present</u> [] [] [] [] [] [] []	Suspected Present [] [] [] [] [] [] []	Known <u>Absent</u> [] [] [] [] [] [] []	Suspected <u>Absent</u> [] [] [] [] [] []	Concentration
± ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	L J	L J	ĹJ	L J	
10. Radioactivity a. Alpha, Total b. Beta, Total c. Radium, Total d. Radium 226, Total 11. Sulfate (as SO ₄) 12. Sulfate (as SO ₃) 13. Surfactants [] 14. Aluminum, Total 15. Barium, Total 16. Boron, Total 17. Cobalt, Total 18. Iron, Total 19. Magnesium, Total 20. Molybdenum, Total 21. Manganese, Total 22. Tin, Total 23. Titanium, Total 24. Algaecides 25. Ammonia 26. Biochemical Oxygen Demand (BOD ₅) 27. Calcium 28. Chemical Oxygen Demand (COD ₅)					
(3)		6			
		-6-			

-6-

	Known	Suspected	Known	Suspected	
<u>Parameters</u>	<u>Present</u>	Present	<u>Absent</u>	<u>Absent</u>	Concentration
29. Chloride	[]	[]	[]	[]	
30. Dyes (organic)*	[]	[]	[]	[]	
31. Dyes (inorganic)*	[]	[]	[]	[]	
32. Flammable Liquids*	[]	[]	[]	[]	

33. High Temperature (>40°C) 34. Organic Nitrogen 35. pH (standard units) 36. Potassium 37. Sodium 38. Total Suspended Solids 39. Turbidity (NTU) 40. Others**			[] [] [] [] []		
*Specify substance or compound, in be accompanied by a listing of chem					
**Other waste substances					
B. Priority Pollutant Information: a. Metals and Inorganics (Total):					
D	Known	Suspected		Suspected	Como oratuation
Parameters 1. Antimony 2. Arsenic 3. Asbestos 4. Beryllium 5. Cadmium 6. Chromium 7. Copper 8. Cyanide 9. Lead 10. Mercury 11. Nickel 12. Selenium 13. Silver 14. Thallium 15. Zinc	Present [] [] [] [] [] [] [] [Present [] [] [] [] [] [] [] [Absent [] [] [] [] [] [] [] [] [] []	Absent [] [] [] [] [] [] [] [Concentration
b. Phenols and Cresols:		-/-			
Parameters 1. Phenol(s) 2. Phenol, 2-chloro 3. Phenol, 2,4-dichloro	Known Present [] []	Suspected Present [] []	Known Absent [] []	Suspected Absent [] []	Concentration

4. Phenol, 2,4,6-trichloro 5. Phenol, pentachloro [] 6. Phenol, 2-nitro 7. Phenol, 4-nitro 8. Phenol, 2,4-dinitro 9. Phenol, 2,4-dimethyl 10. m-Cresol, p-chloro 11. o-cresol, 4,6-dinitro c. Monocyclic Aromatics (Excludi		[] [] [] [] [] [] []	[] [] [] []	[] [] [] [] [] [] []		
er mandey ene manues (Exclude	ing i nenoi		114 1 114114	intesy.		
Parameters 1. Benzene 2. Benzene, chloro 3. Benzene, 1,2-dichloro 4. Benzene, 1,3-dichloro 5. Benzene, 1,4-dichloro 6. Benzene, 1,2,4-trichloro 7. Benzene, hexachloro 8. Benzene, ethyl 9. Benzene, nitro 10. Toluene 11. Toluene, 2,4-dinitro 12. Toluene, 2,6-dinitro	Known Present [] [] [] [] [] [] [] [Suspected <u>Present</u> [] [] [] [] [] [] [] [] [] []	Known Absent [] [] [] [] [] [] [] [Suspected Absent [] [] [] [] [] [] [] [Concentration	
d. PCB's and Related Compounds	s:					
Parameters 1. PCB-1016 2. PCB-1221 3. PCB-1232 4. PCB-1242 5. PCB-1248 6. PCB-1254 7. PCB-1260 8. 2-Chloronaphthalene	Known Present [] [] [] [] [] [] [] [Suspected Present [] [] [] [] [] [] []	Known <u>Absent</u> [] [] [] [] [] [] []	Suspected	Concentration	
		-8-				
e. Ethers:						
Parameters 1. Ether, bis-(chloromethyl) 2. Ether, bis-(2-chloroethyl) 3. Ether, bis-(2-chlorosopropyl) 4. Ether, bis-(2-chloroethyl vinyl)	Known <u>Present</u> [] [] []	Suspected Present [] [] []	Known <u>Absent</u> [] [] []	Suspected Absent [] [] []	Concentration	

5. Ether, 4-bromophenyl phenyl6. Ether, 4-chlorophenyl phenyl7. Bis (2-chloroethoxy) methane	[] []	[] []	[] []	[] []	
f. Nitrosamines and Other Nitrog	en-Contai	ning Compo	ounds:		
Parameters 1. Nitrosamine, dimethyl 2. Nitrosamine, diphenyl 3. Nitrosamine, di-n-propyl 4. Benzidine 5. Benzidine, 3,3-dichloro 6. Hydrazine, 1,2-diphenyl 7. Acrylonitrile	Known Present [] [] [] [] [] [] []	Suspected Present [] [] [] [] [] []	Known <u>Absent</u> [] [] [] [] [] []	Suspected Absent [] [] [] [] [] []	Concentration
g. Halogenated Aliphatics:					
Parameters 1. Methane, bromo- 2. Methane, chloro 3. Methane, dichloro 4. Methane, chlorodibromo 5. Methane, dichlorobromo 6. Methane, tribromo 7. Methane, trichloro 8. Methane, tetrachloro 9. Methane, trichlorofluoro 10. Methane, dichlorofluoro 11. Ethane, 1,1-dichloro 12. Ethane, 1,2-dichloro 13. Ethane, 1,1,1-trichloro 14. Ethane, 1,1,2,1-tetrachloro 15. Ethane, hexachloro 16. Ethene, chloro 17. Ethene, 1-1 dichloro	Known Present [] [] [] [] [] [] [] [Suspected <u>Present</u> [] [] [] [] [] [] [] [] [] []	Known Absent [] [] [] [] [] [] [] [Suspected Absent [] [] [] [] [] [] [] [Concentration
		-9-			
Parameters 18. Ethene, trans-dichloro 19. Ethene, trichloro 20. Ethene, tetrachloro 21. Propane, 1,2-dichloro 22. Propene, 2,4-dichloro 23. Butadiene, hexachloro 24. Cyclopentadiene, hexachloro	Known Present [] [] [] [] [] [] []	Suspected Present [] [] [] [] [] [] []	Known Absent [] [] [] [] [] [] []	Suspected	Concentration

h. Phthalate Ester:

	Known	Suspected	Known	Suspected	
<u>Parameters</u>	<u>Present</u>	Present	<u>Absent</u>	<u>Absent</u>	Concentration
1. Phthalate, di-c-methyl	[]	[]	[]	[]	
2. Phthalate, di-n-ethyl	[]	[]	[]	[]	
3. Phthalate, di-n-butyl	[]	[]	[]	[]	
4. Phthalate, di-n-octyl	[]	[]	[]	[]	
5. Phthalate, bis (2-ethylhexyl)	[]	[]	[]	[]	
6. Phthalate, butyl benzyl	ĪĪ	ĪĪ	ĪĪ	ĪĪ	

i. Polycyclic Aromatic Hydrocarbons:

	Known	Suspected	Known	Suspected	
Parameters	<u>Present</u>	Present	<u>Absent</u>	<u>Absent</u>	Concentration
1. Acenaphthene	[]	[]	[]	[]	
2. Acenaphthylene	[]	[]	[]	[]	
3. Anthracene	[]	[]	[]	[]	
4. Benzo(a) anthracene	[]	[]	[]	[]	
5. Benzo (b) fluoranthene	[]	[]	[]	[]	
6. Benzo (k) fluoranthene	[]	[]	[]	[]	
7. Benzo (ghi) perylene	[]	[]	[]	[]	
8. Benzo (a) pyrene	[]	[]	[]	[]	
9. Chrysene	[]	[]	[]	[]	
10. Dibenzo (a,n) anthracene	[]	[]	[]	[]	
11. Fluoranthene	[]	[]	[]	[]	
12. Indeno (1,2,3-cd) pyrene	[]	[]	[]	[]	
13. Naphthalene	[]	[]	[]	[]	
14. Phenanthrene	[]	[]	[]	[]	
15. Pyrene	[]	[]	[]	[]	

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j. Pesticides:

	Known	Suspected	Known	Suspected	
<u>Parameters</u>	<u>Present</u>	<u>Present</u>	<u>Absent</u>	<u>Absent</u>	Concentration
1. Acrolein	[]	[]	[]	[]	
2. Aldrin	[]	[]	[]	[]	
3. BHC (Alpha)	[]	[]	[]	[]	
4. BHC (Beta)	[]	[]	[]	[]	
5. BHC (Gamma) or Lindane	[]	[]	[]	[]	

6. BHC (Delta) 7. Chlordane 8. DDD 9. DDE 10. DDT 11. Dieldrin 12. Endosulfan (Alpha) 13. Endosulfan (Beta) 14. Endosulfan Sulfate 15. Endrin 16. Endrin aldehyde 17. Heptachlor 18. Heptachlor eposide 19. Isopharone 20. TCDD (or Dioxin) 21. Toxaphene C. Hazardous Substances Informatical Control of the substances of t	[]				
Parameters 1. Acetaldehyde 2. Allyl alcohol 3. Allyl chloride 4. Amyl acetate 5. Aniline 6. Benzonitrile 7. Benzyl chloride 8. Butyl acetate 9. Butylamine 10. Captan 11. Carbaryl 12. Carbofuran 13. Carbon disulfide 14. Chlorpyrifos 15. Coumaphos	Known Present [] [] [] [] [] [] [] [Suspected Present [] [] [] [] [] [] [] [Known <u>Absent</u> [] [] [] [] [] [] [] [] [] []	Suspected <u>Absent</u> [] [] [] [] [] [] [] [] [] []	Concentration
Parameters 16. Cresol 17. Crotonaldehyde 18. Cyclohexane 19. 2,4-Dichlorophenoxy acetic acid 20. Diazinon 21. Dicamba 22. Dichlobenil	Known Present [] [] [] [] [] []	Suspected Present [] [] [] []	Known <u>Absent</u> [] [] [] [] []	Suspected Absent [] [] [] [] []	Concentration

22 D: 11	г э	F 3	гэ	г т	
23. Dichlone	l J	Ĺj			
24. 2,2-Dichloropropionic Acid	Ĺj	Ĺ			
25. Dichlorvos	[]	[]	[]	[]	
26. Diethylamine	[]	[]	[]	[]	
27. Dimethylamine	[]	[]	[]	[]	
28. Dinitrobenzene	[]	[]	[]	[]	
29. Diquat	[]	[]	[]	[]	
30. Disulfoton	ĪĪ	ĪĪ	ĪĪ	ĪĪ	
31. Diuron	ĪĪ	ĨĪ	ĪĪ	ĪĪ	
32. Epichlorophydrin	Ĺĺ	Ĺĺ	ĺĺ	Ĺ	
33. Ethanolamine	Ĺĺ	įį	į	Ĺĺ	
34. Ethion	Ī	į	וֹ זֹ	וֹ זֹ	
35. Ethylenediamine	[]	1 1	[]	[]	
36. Ethlyenedibromide	[]	ļ]	[]	[]	
37. Formaldehyde	[]	[]	[]	[]	
38. Furfural	L J	L J	L J	L J []	
39. Guthion	L J	L J	L J	[] []	
	L J	L J	L J	[] []	
40. Isoprene	L J				
41. Isopropanolamine	L J	L J	[]	[]	
dodecylbenzene-sulfanate	F 3	F 3	r 1	F 7	
42. Kelthane		Ĺ			
43. Kepone	[]	[]	[]	[]	
44. Malathion	[]	[]	[]	[]	
45. Mercaptodimethur	[]	[]	[]	[]	
46. Methoxychlor	[]	[]	[]	[]	
47. Methylmercaptan	[]	[]	[]	[]	
48. Methylmethacrylate	[]	[]	[]	[]	
49. Methylparathion	ĪĪ	ĪĪ	ĪĪ	ĪĪ	
50. Mevinphos	ĪĪ	ĨĨ	ĪĪ	ĪĪ	
51. Mexacarbate	Ĺĺ	į į	ĺĺ	Ĺ	
52. Monoethylamine	Ĺĺ	įį	וֹ זֹ	į	
53. Monomethylamine	[]	וֹ זֹ	[]	וֹ זֹ	
54. Naled	[]	1 1	[]	[]	
55. Napthenic acid	[]		[]	[]	
56. Nitrotoluene	[]	[]		[]	
50. Millotofucife	ГЛ	L J	ГЛ	LJ	

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	Known	Suspected	Known	Suspected	
<u>Parameters</u>	Present	<u>Present</u>	<u>Absent</u>	<u>Absent</u>	Concentration
57. Parathion	[]	[]	[]	[]	
58. Phenolsulfanate	[]	[]	[]	[]	
59. Phosgene	[]	[]	[]	[]	
60. Propargite	[]	[]	[]	[]	
61. Propylene oxide	[]	[]	[]	[]	
62. Pyrethrins	[]	[]	[]	[]	
63. Quinoline	[]	[]	[]	[]	
64. Resorcinol	[]	[]	[]	[]	
65. Strontium	[]	[]	[]	[]	

66. Strychnine	[]	[]	[]	[]
67. Styrene	[]	[]	[]	
68. 2,4,5-Trichlorophenoxy	[]	[]	[]	[]
acetic acid	г 1	гэ	г 1	гэ
69. TDE	L J	[]	[]	[]
(Tetrachlorodyphenylethane) 70. 2,4,5-Trichlorophenoxy)	гэ	гэ	гэ	Г 1
(propanoic acid)	[]	[]	[]	[]
71. Trichlorofan	ГТ	[]	[]	[]
72. Triethylamine	[]	[]	[]	
73. Trimethylamine	[]	[]	[]	[]
74. Uranium	[]	[]	[]	[]
75. Vanadium	[]	[]	[]	[]
76. Xylene	[]	[]		[]
77. Xylenol				
78. Zirconium				[]
79. Other	[]	[]	[]	[]
present.				
	_	13-		
V. Other Wastes:				
A. Are any liquid wastes or means other than by dischar	rge to the sar	•		hment disposed of by
If "yes", then complete t	he next two	sections; if	"no", then S	TOP here.
B. These wastes may best b	e described s	ıs.		
B. These wastes may best o	e described t			Approximate Gallons or Pounds Per Day
[] Acids & Alkalie	es (Bases)			

Γ] Heavy Metal Sludge
Ī] Inks / Dyes
Ī] Oil and Grease
į] Organic Compounds
Ī	Paints
Ĭ] Pesticides
Ī] Plating Wastes
Ī	Pretreatment Sludge.
Ī] Solvents / Thinners
Ĺ	Other Hazardous Wastes: (specify)
L	
Г	Other Wastes: (specify)
L	1 c max (cp cons)
C For the	e above checked wastes, does your Business Establishment practice:
C. I of the	a do ve encerca wastes, does your Basiness Establishment practice.
Г	On-site storage?
Г	Off-site storage?
L [On-site disposal?
L [Off-site disposal?
L	John site disposur.
Briefly de	escribe the method(s) of storage or disposal checked above:
Differry de	escribe the method(s) of storage of disposal effected above.